

Attorney Docket No.: KUZ0028US.NP
Inventors: Tateishi et al.
Serial No.: 10/566,350
Filing Date: January 27, 2006
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This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

Claim 1 (currently amended): An adhesive patch having a pressure-sensitive adhesive layer comprising bisoprolol and/or a pharmaceutically acceptable salt thereof, wherein said adhesive layer is a matrix type, and the composition thereof contains an acrylic polymer obtained by copolymerizing a (meth)acrylic ester with a (meth)acrylic acid comprising a carboxyl group, the acrylic polymer contains no alcoholic hydroxyl group in molecules 2-ethylhexyl acrylate·vinyl acetate·acrylic acid copolymer, a percutaneous absorption promoter selected from the group consisting of lauryl alcohol, myristyl alcohol, oleyl alcohol, isostearyl alcohol, diethyl sebacate, lauric acid diethanolamide, isopropyl myristate, glycerol monocaprate, glycerol monolaurate, glycerol monooleate, sorbitan monolaurate, propylene glycol monolaurate, polyoxyethylene lauryl ether, and pyrothiodescane, and an organic acid and/or a pharmaceutically acceptable salt thereof, and the penetration rate of bisoprolol through skin is 34-300 $\mu\text{g}/\text{h}\cdot\text{cm}^2$.

Claims 2-4 (canceled)

Claim 5 (previously presented): The adhesive patch according to claim 1, wherein the composition of the pressure-sensitive adhesive layer contains further an elastomeric polymer.

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Claim 6 (original): The adhesive patch according to claim 5, wherein the elastomeric polymer is at least one kind selected from a group consisting of styrene-isoprene-styrene block copolymer, polyisobutylene, isoprene rubber, styrene-butadine-styrene block copolymer, styrene-butadine rubber and silicone rubber.

Claim 7 (canceled)

Claim 8 (currently amended): The adhesive patch according to ~~claim 7~~ claim 1, wherein the organic acid and/or the pharmaceutically acceptable salt thereof are at least one kind selected from a group consisting of acetic acid, propionic acid, lactic acid, salicylic acid and pharmaceutically acceptable salts thereof.

Claim 9 (currently amended): The adhesive patch according to ~~claim 7~~ claim 1, wherein the percutaneous absorption promoter is isopropyl myristate.

Claim 10 (canceled)

Claim 11 (previously presented): The adhesive patch according to claim 1, wherein the drug is bisoprolol hemifumarate.

Claims 12-19 (canceled)

Claim 20 (previously presented): The adhesive patch according to claim 1, wherein the patch further comprises a backing contacting the pressure-sensitive adhesive layer.

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Claim 21 (new): The adhesive patch according to claim 1, wherein the penetration rate of bisoprolol through the skin is about 34 to 300 $\mu\text{g}/\text{h}\cdot\text{cm}^2$.

Claim 22 (new): The adhesive patch according to claim 1, wherein the penetration rate of bisoprolol through the skin is about 34.0 to about 54.3 $\mu\text{g}/\text{h}\cdot\text{cm}^2$.

Claim 23 (new): The adhesive patch according to claim 8, wherein the pressure-sensitive adhesive layer contains 0.1 to 10 wt % of the organic acid and/or the pharmaceutically acceptable salt thereof based on the weight of the total composition of pressure-sensitive adhesive layer.

Claim 24 (new): The adhesive patch according to claim 23, wherein the pressure-sensitive adhesive layer contains 4.5 to 8.5 wt % of the organic acid and/or the pharmaceutically acceptable salt thereof based on the weight of the total composition of pressure-sensitive adhesive layer.

Claim 25 (new): The adhesive patch according to claim 9, wherein the pressure-sensitive adhesive layer contains 0.1 to 20 wt % of isopropyl myristate based on the weight of the total composition of pressure-sensitive adhesive layer.

Claim 26 (new): The adhesive patch according to claim 25, wherein the pressure-sensitive adhesive layer contains 5

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to 15 wt % of isopropyl myristate based on the weight of the total composition of pressure-sensitive adhesive layer.

Claim 27 (new): The adhesive patch according to claim 6, wherein the elastmeric polymer is styrene-isoprene-styrene block copolymer or polyisobutylene.

Claim 28 (new): The adhesive patch according to claim 21, wherein the pressure-sensitive adhesive layer contains 0.1 to 10 wt % of the organic acid and/or the pharmaceutically acceptable salt thereof and 0.1 to 20 wt % of isopropyl myristate based on the weight of the total composition of pressure-sensitive adhesive layer.

Claim 29 (new): The adhesive patch according to claim 28, wherein the pressure-sensitive adhesive layer contains 4.5 to 8.5 wt % of the organic acid and/or the pharmaceutically acceptable salt thereof and 5 to 15 wt% of isopropyl myristate based on the weight of the total composition of pressure-sensitive adhesive layer.

Claim 30 (new): The adhesive patch according to claim 28, wherein the pressure-sensitive adhesive layer contains further an elastmeric polymer selected from a group consisting of styrene-isoprene-styrene block copolymer, polyisobutylene, isoprene rubber, styrene-butadine-styrene block copolymer, styrene-butadine rubber and silicone rubber.

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Claim 31 (new): The adhesive patch according to claim 30, wherein the elastmeric polymer is styrene-isoprene-styrene block copolymer or polyisobutylene.